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FIG. 1

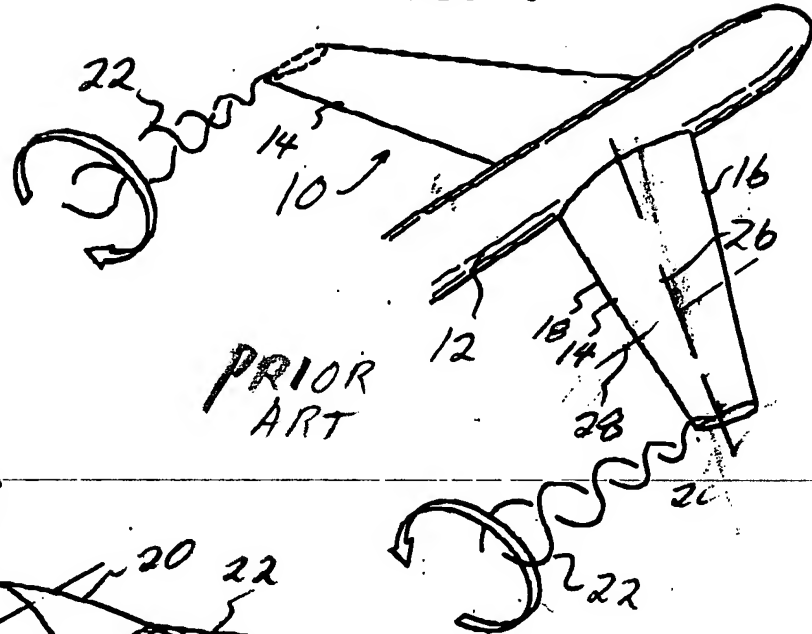


FIG. 2

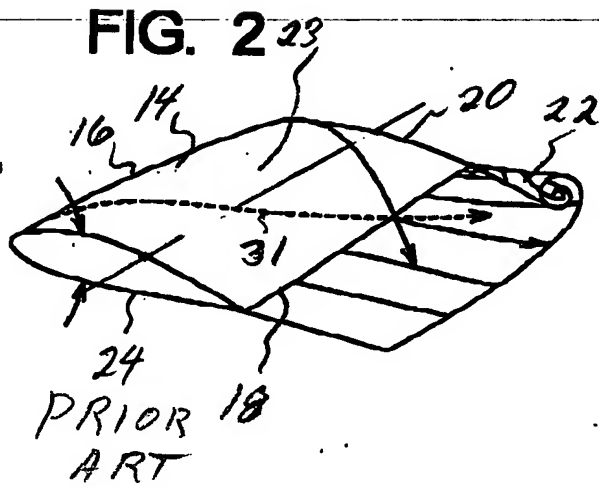


FIG. 3

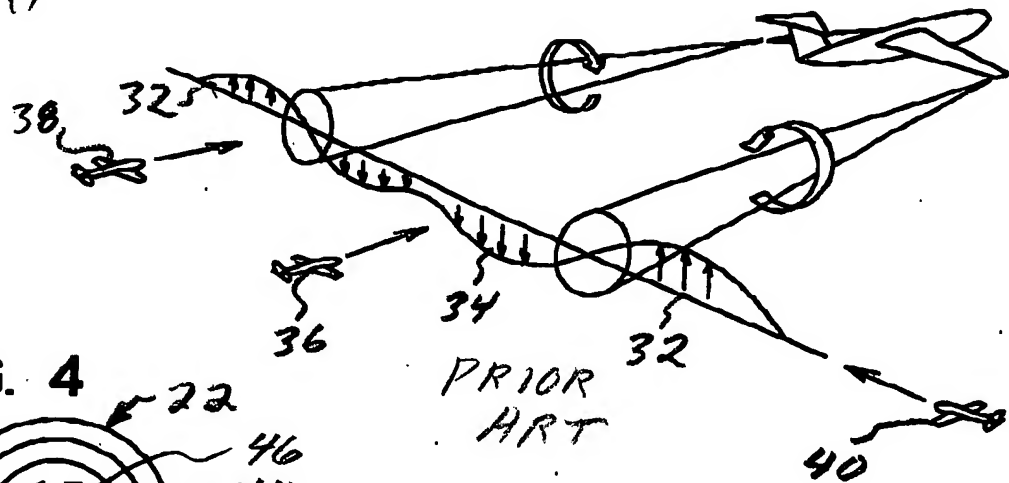
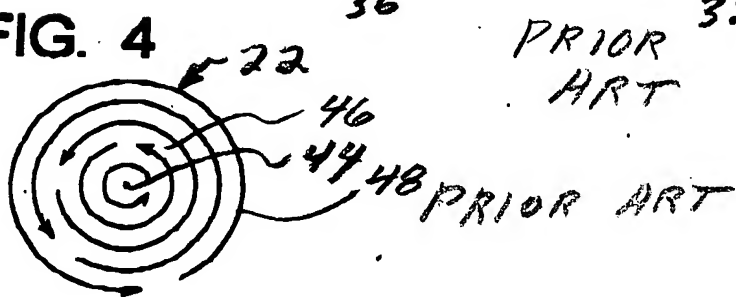


FIG. 4



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FIG. 5 A

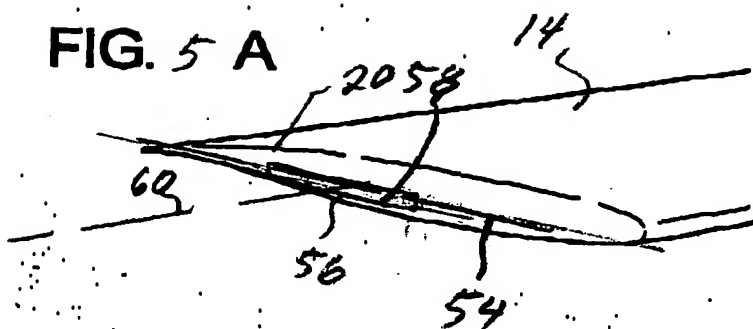


FIG. 5 B



FIG. 5 C



FIG. 5 D



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FIG. 6

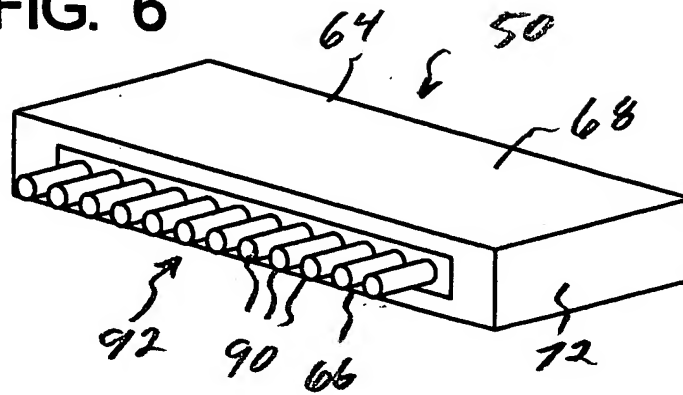


FIG. 7

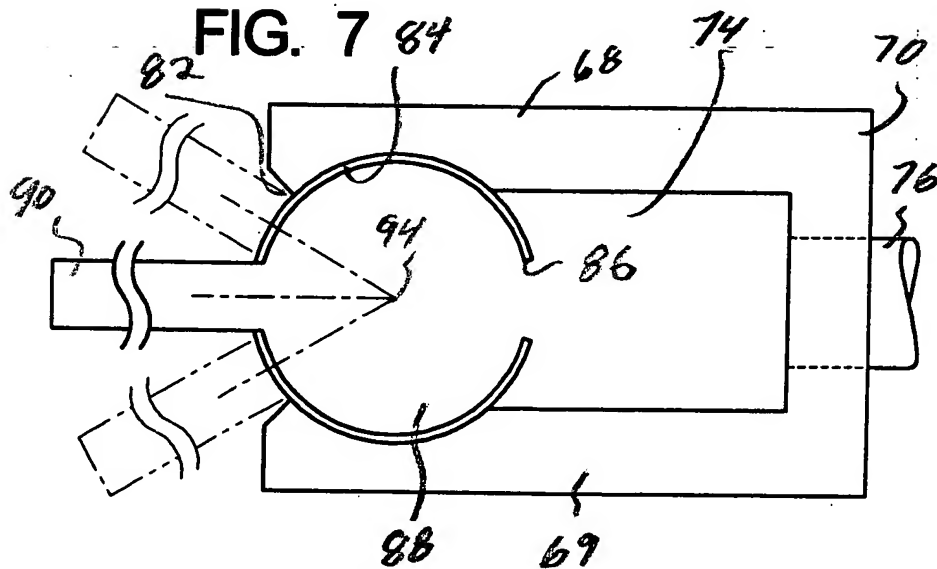
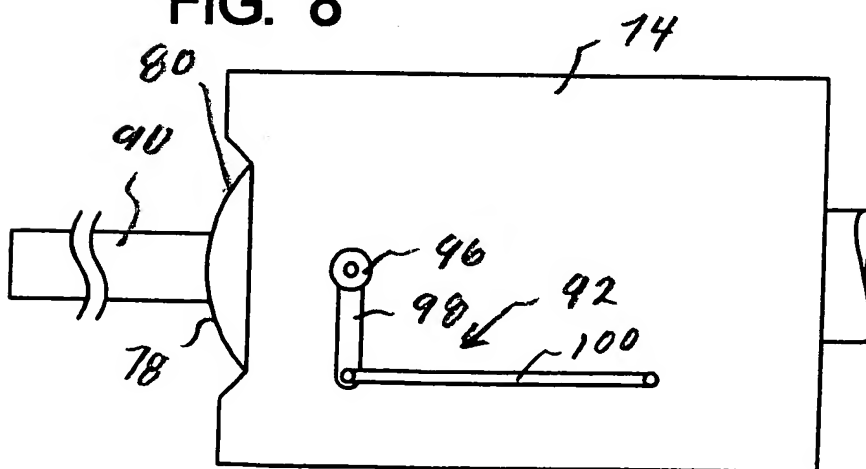


FIG. 8



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FIG. 9A

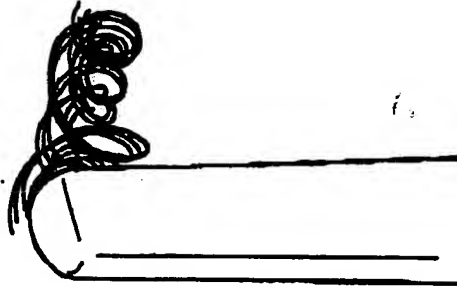
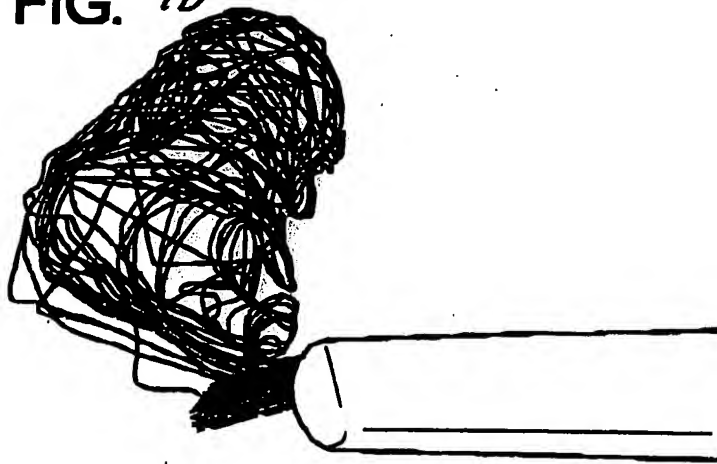
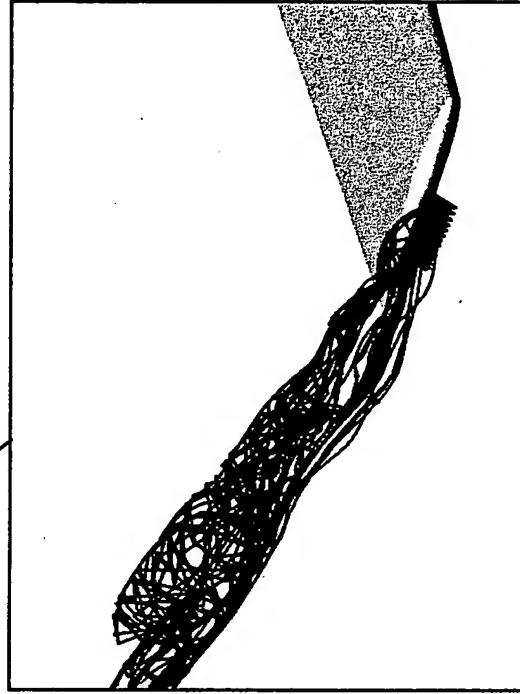
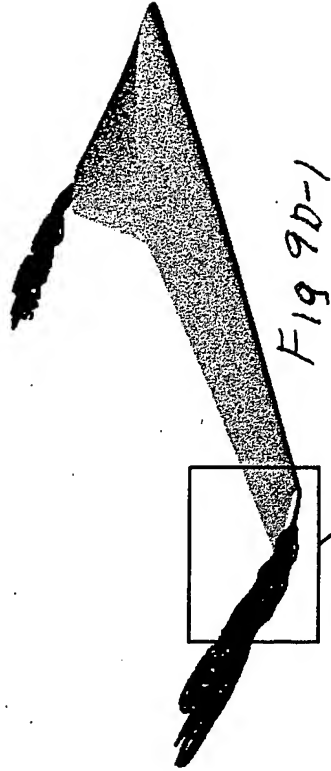


FIG. 9B

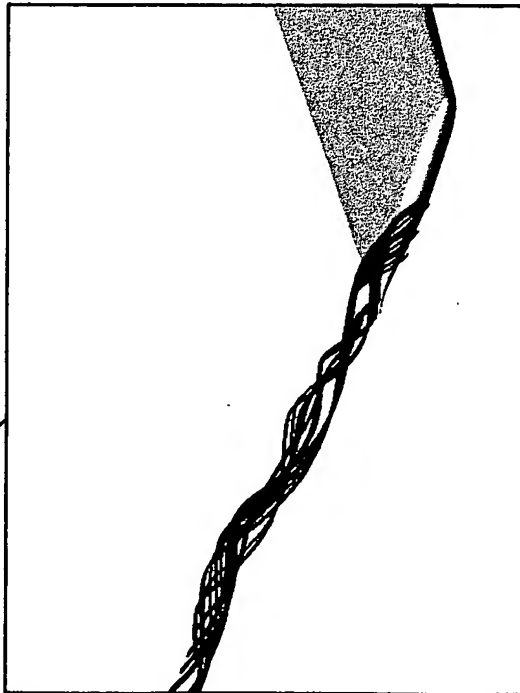
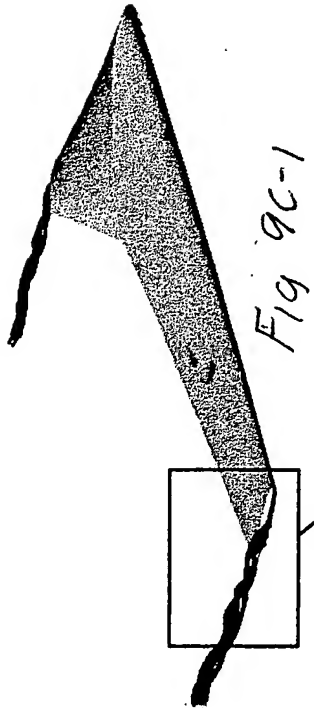


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After activation



Before activation



Before activation

Iso-surface marks the  
core of the vortex

After activation

AFC at  $10.7 \text{ H}_z$

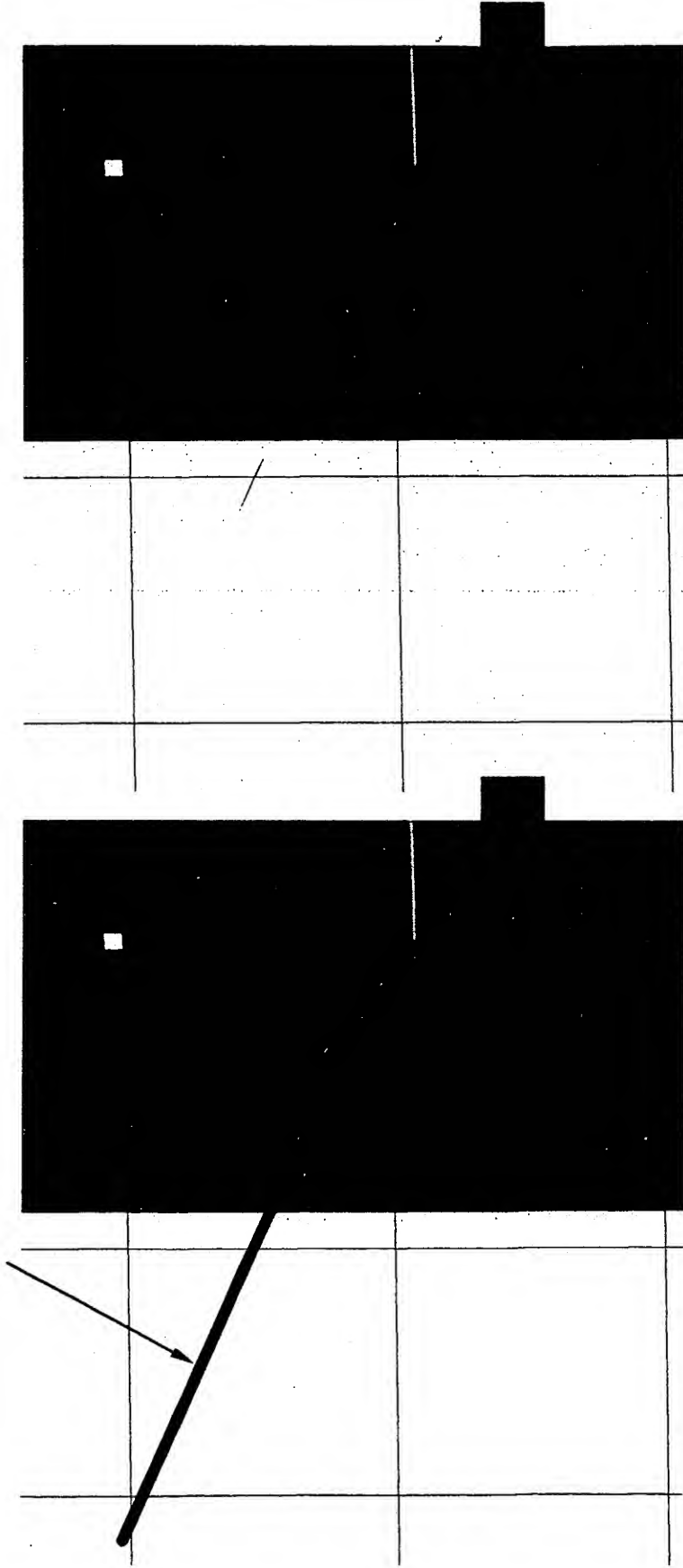
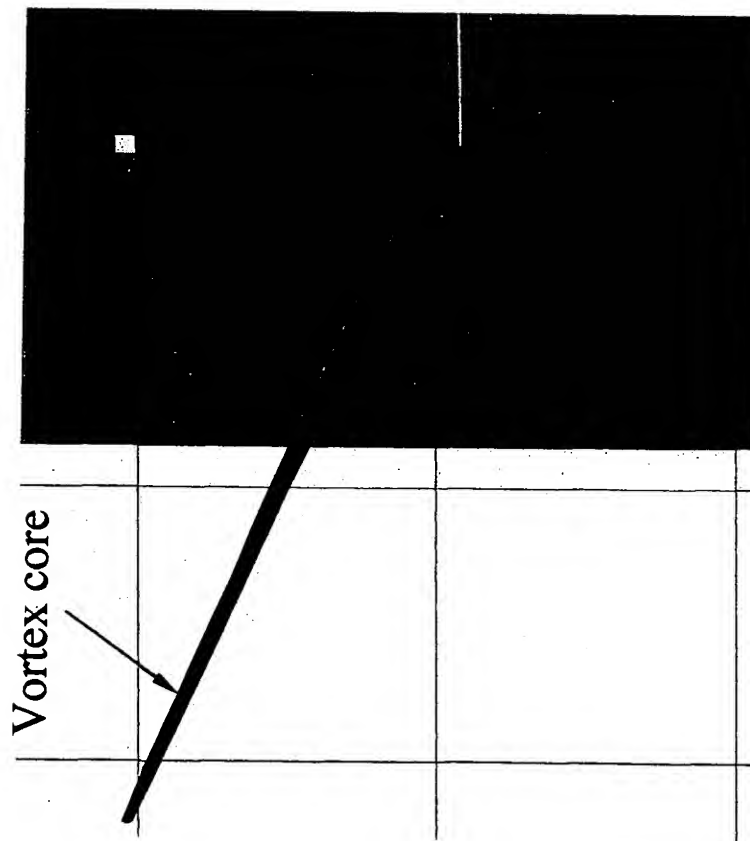


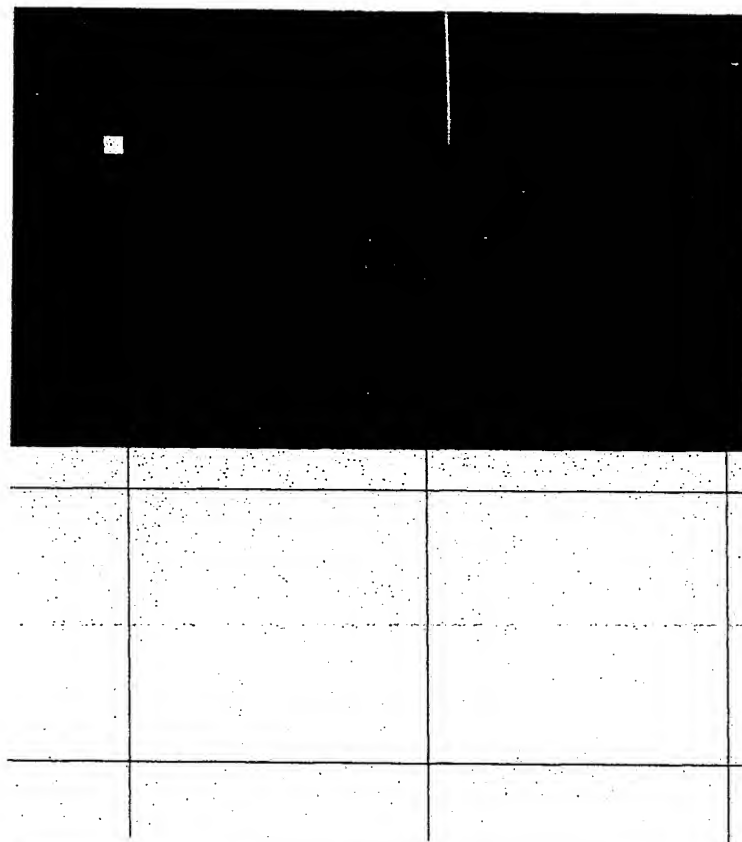
Figure 10A

Before activation



After activation

AFC at  $10.7 \text{ Hz}$



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Figure 10B

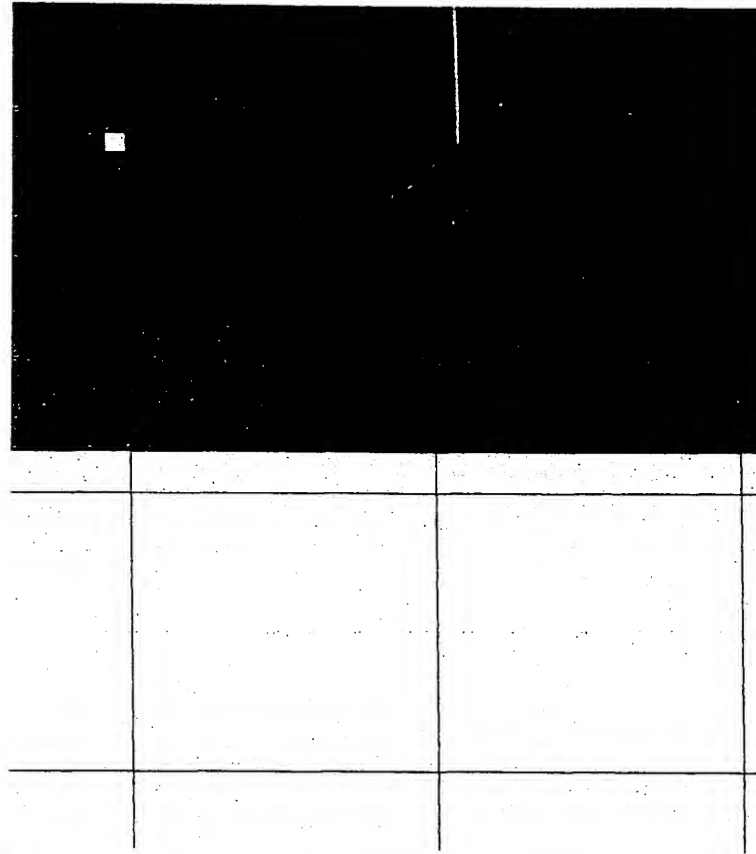
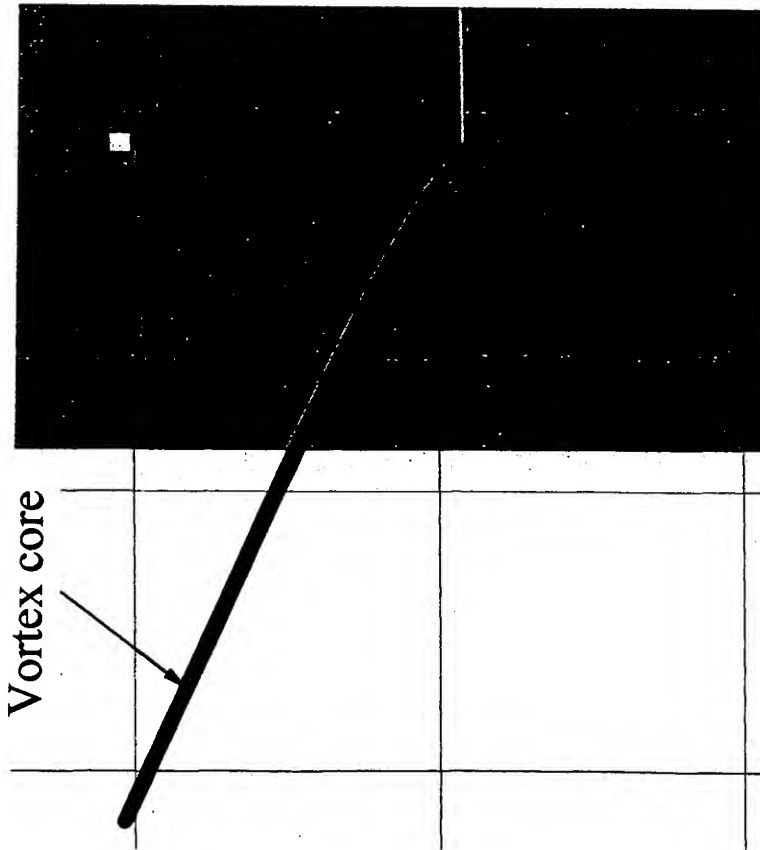


Before activation

After activation

AFC at  $10.7 \text{ Hz}$

Vortex core



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Figure 10c

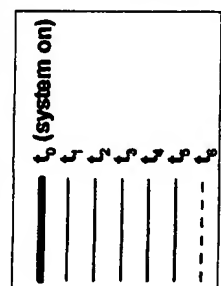


# **H<sub>2</sub> 10.7 Jet Excitation**

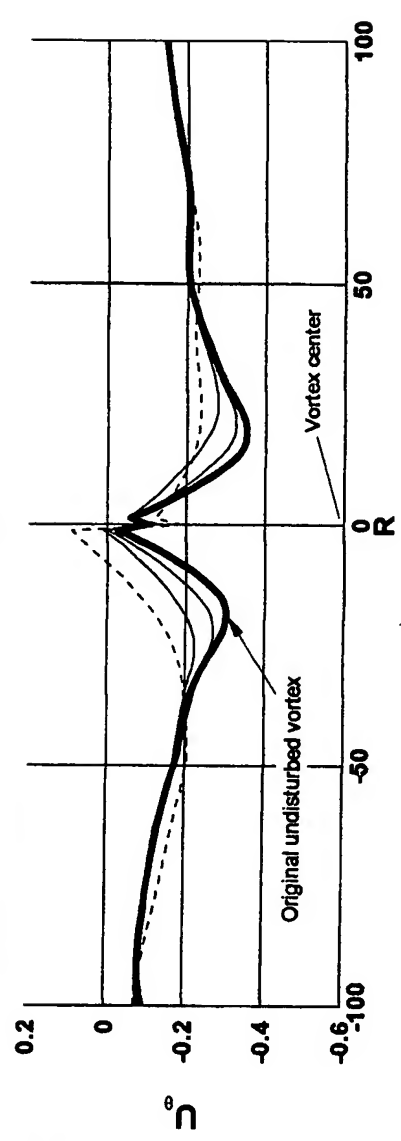
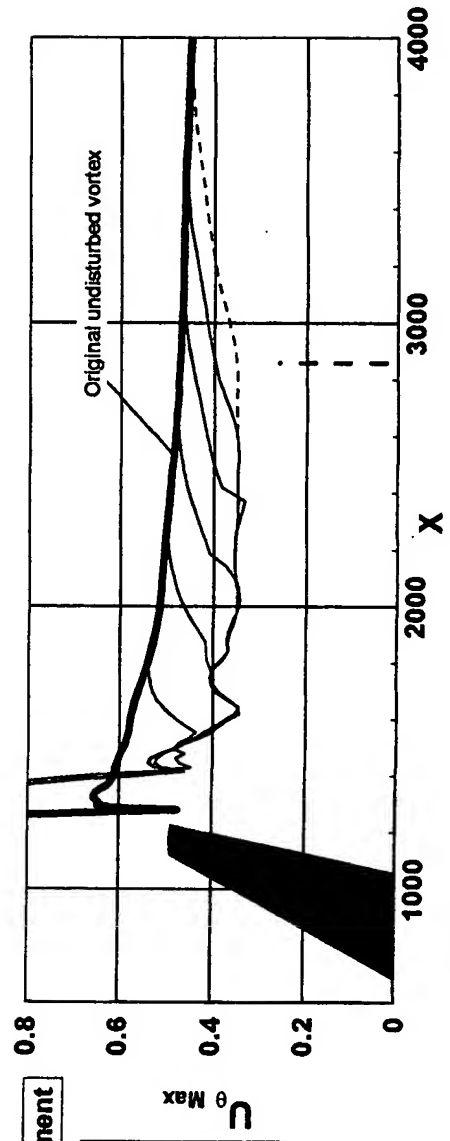
$M_\infty = 0.25$   
 $\alpha = 8^\circ$   
 $C_L = 0.75$

Time intervals of 0.093 sec

**Vortex core development**



$b/2 = 820$   
 $AR = 6.6$   
 $C_x = 383$   
 $C_l = 112$



**Vertical wake profile**  
 $x=2850$

**Figure 11B**

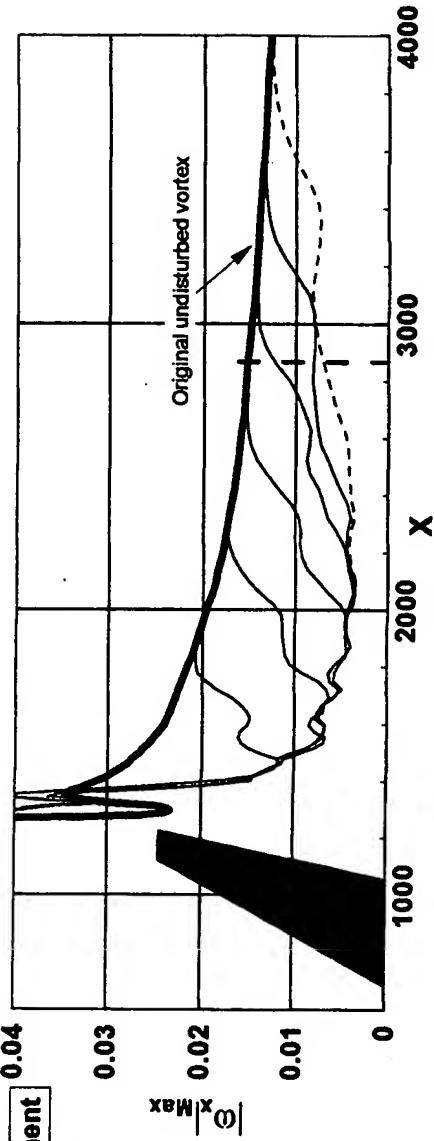
# $H_2$ 10.7 Jet Excitation

$M_\infty = 0.25$   
 $\alpha = 8^\circ$   
 $C_L = 0.75$

Time intervals of 0.093 sec

$b/2 = 820$   
 $AR = 6.6$   
 $C_r = 383$   
 $C_t = 112$

Initial  
 $t_0$



$t_0$  (system on)  
 $t_1$   
 $t_2$   
 $t_3$   
 $t_4$   
 $t_5$   
 $t_6$

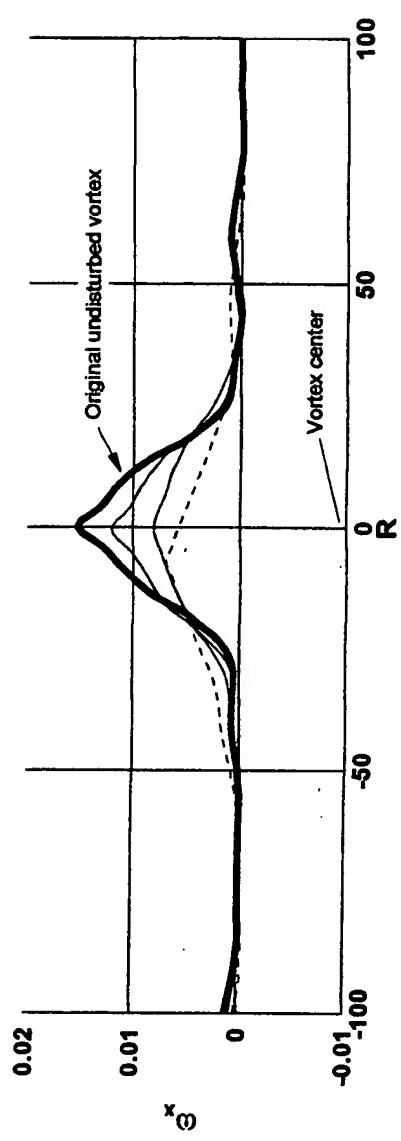
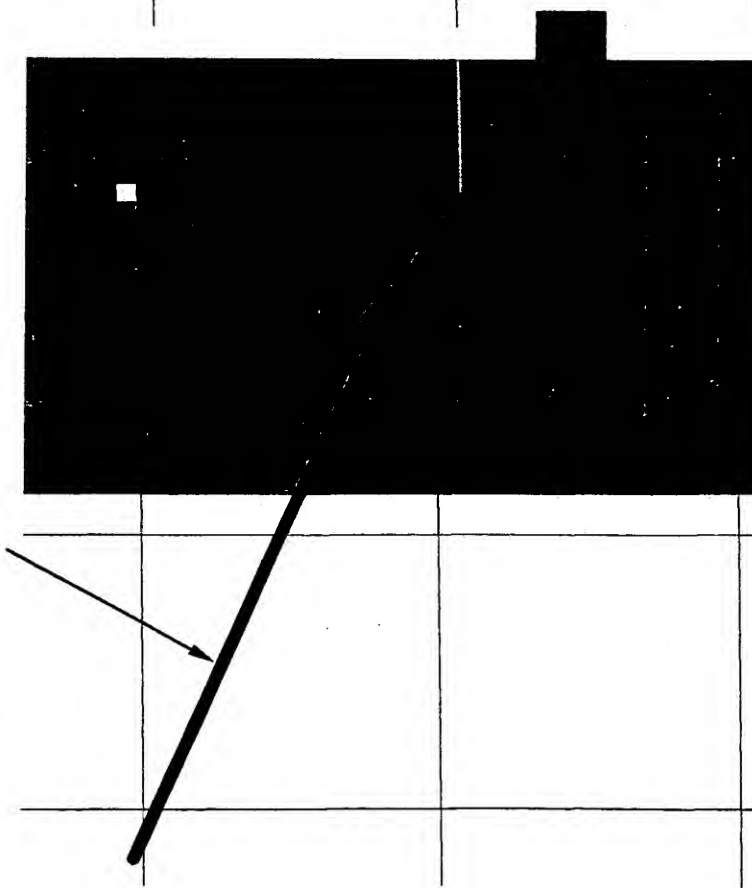


Figure 11C

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Before activation

Iso-surface marks the  
core of the vortex



After activation

AFC at  $1.07 H_z$

Instantaneous  
vortical blobs

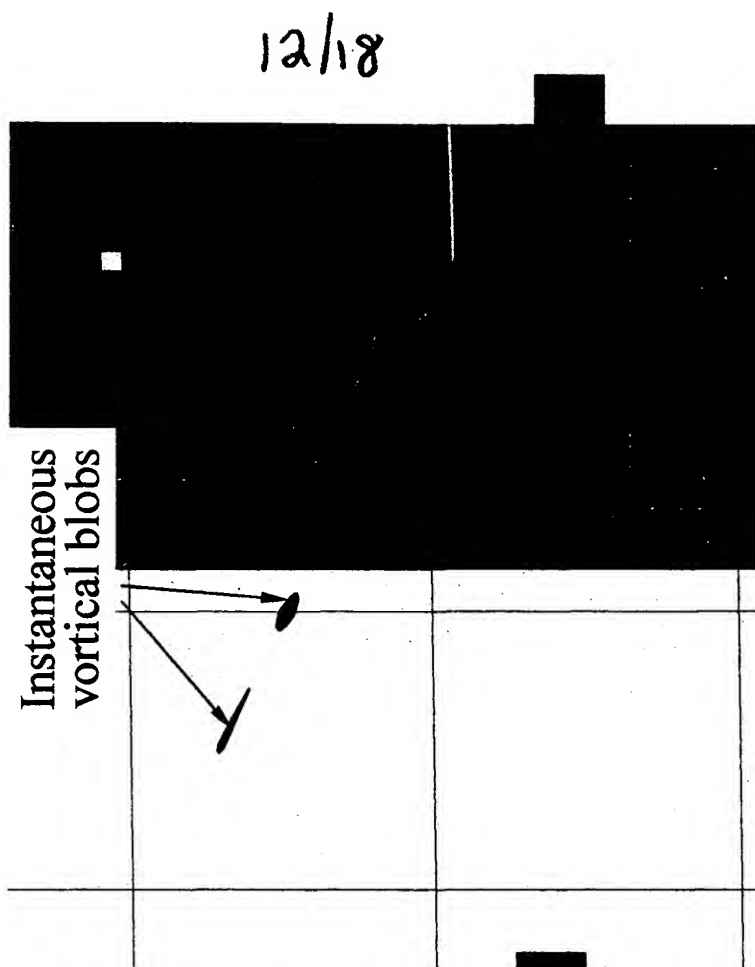
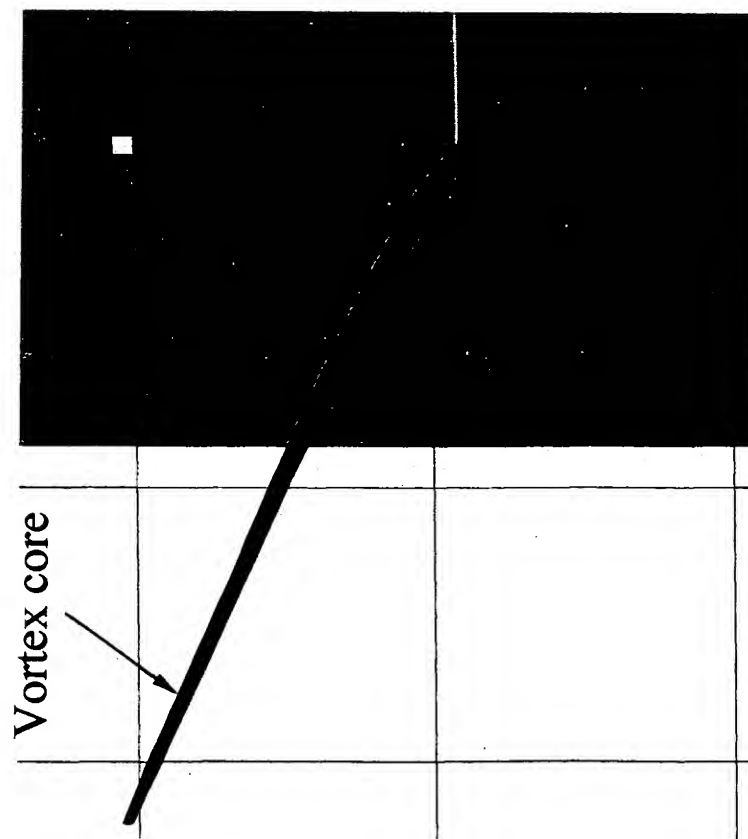


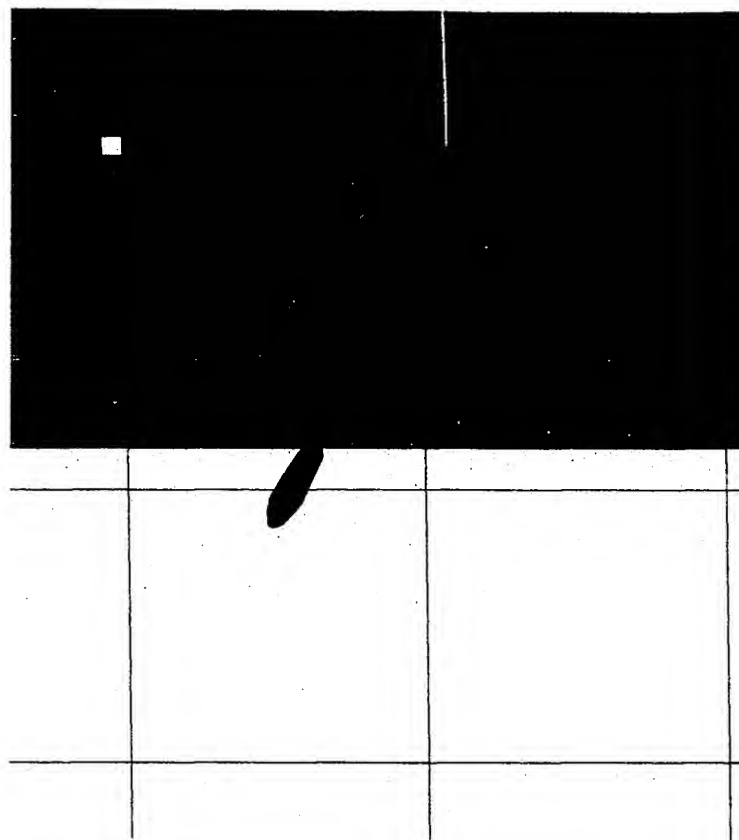
Figure 12A

Before activation



After activation

AFC at  $1.07 H_z$



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Figure 12B

Before activation

After activation

AFC at 1.07  $H_z$

Vortex core

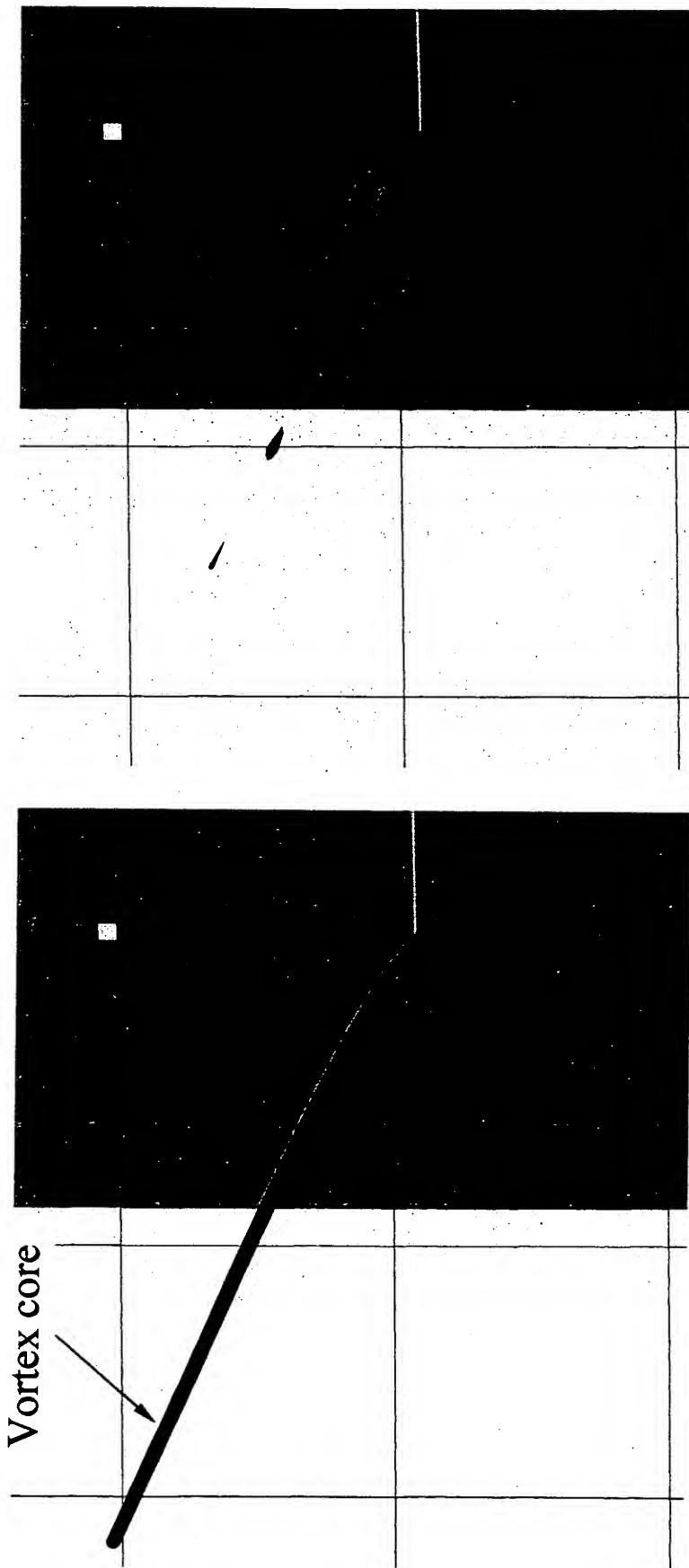


Figure 12c

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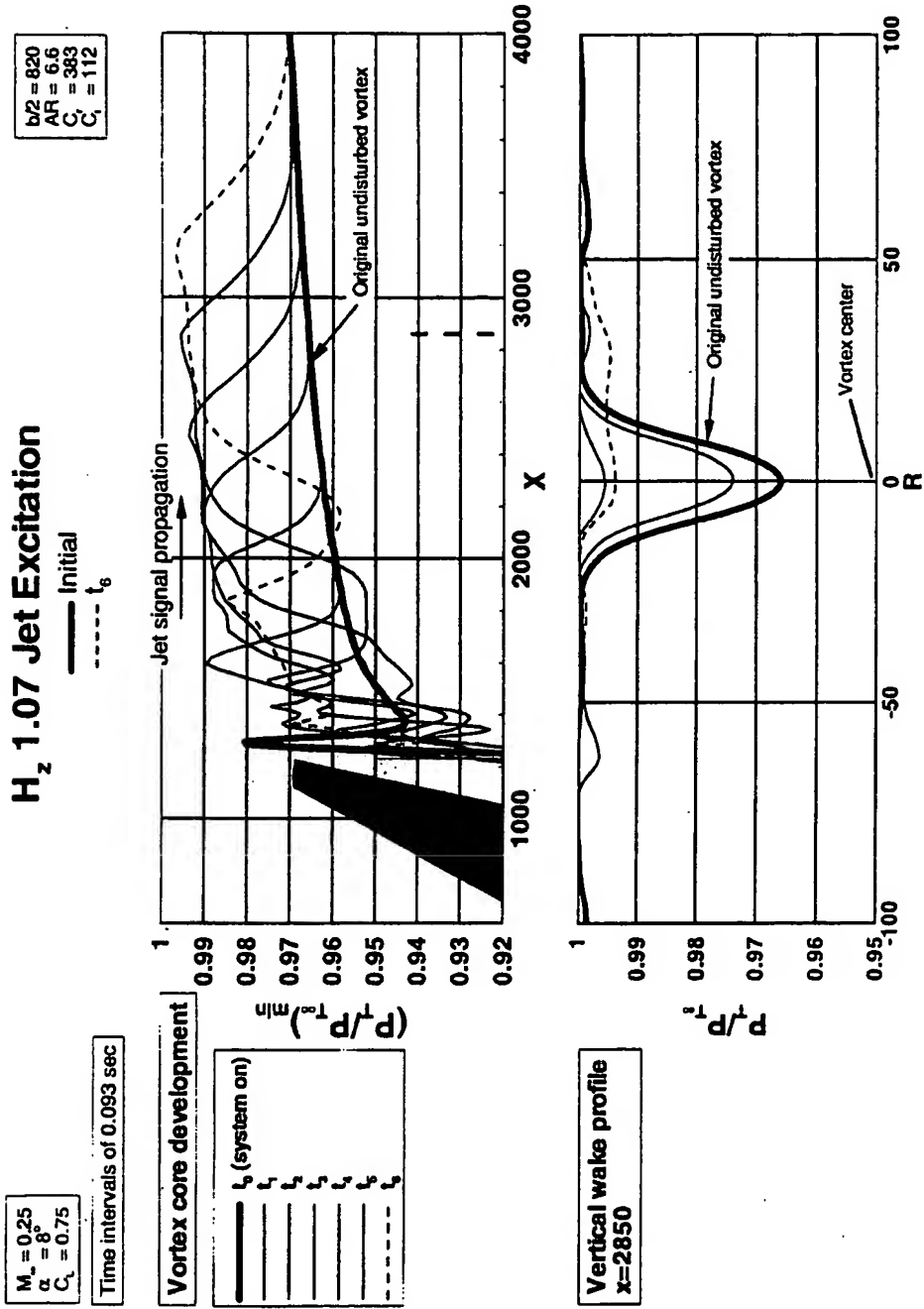


Figure 13A



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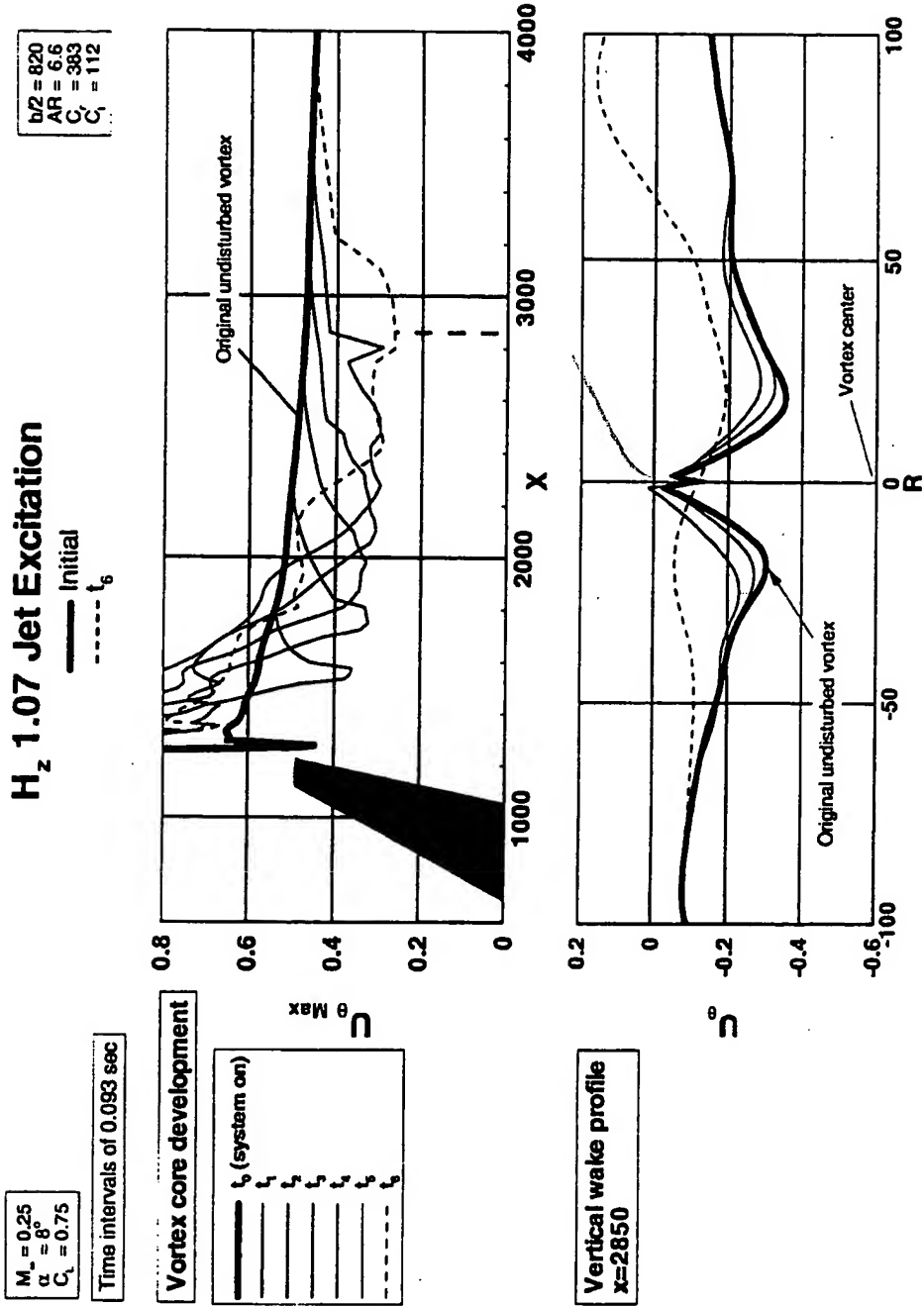


Figure 13B

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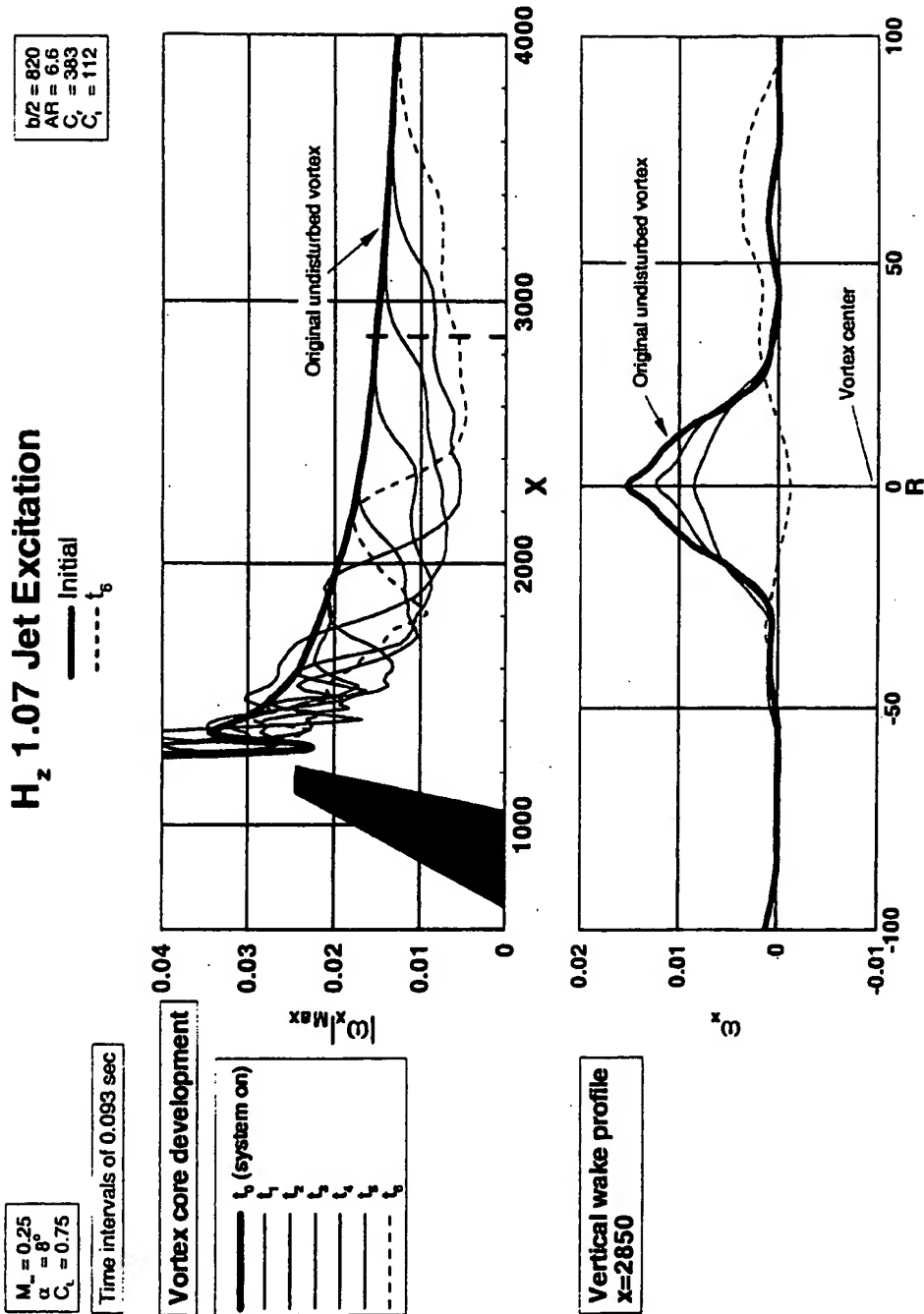


Figure 13c

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FIG. 14 A



FIG. 14 B

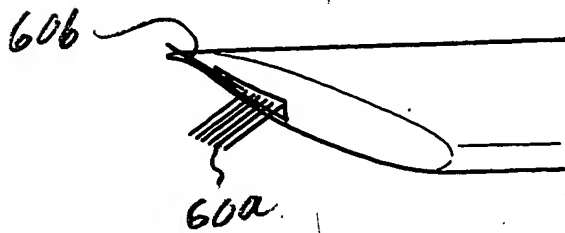


FIG. 14 C

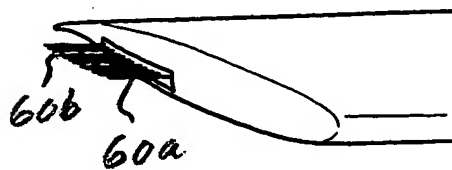


FIG. 14 D

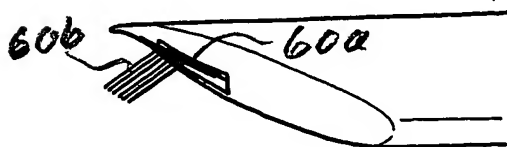


FIG. 14 E

